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TITLE:

MAGNETIZING METHOD OF SMALL-SIZED MOTOR ROTOR

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ABSTRACT:

PURPOSE: To obtain a small-sized motor, in which the abrasion resistance of a magnetizing jig is improved while the magnetizing properties of a rotor are enhanced, by forming a hard layer onto the surface of the core section of the magnetizing jig and magnetizing the hard layer.

CONSTITUTION: Eight notched grooves 4 are formed to the inner periphery of the hole section of a magnetizing jig 1 in the direction of the insertion of a motor rotor 14, and a core is plated through an ion plating PVD method or component substances are changed into evaporated ions by an arc source or an ion plasma source, thus forming a hard coating in 1 µm thickness on a surface at a heat treatment temperature of 400-510°C. The linear sections of wire rods bent in a U shape in conformity with the pitches of the notched grooves 4 are inserted into the notched grooves 4, the adjacent terminals of the wire rods are bound and soldered at three positions by solderless terminals 10 while bent sections 7 are located on the core 2 and terminal sections are directed downward, and residual wire-rod terminals are bound with leads, to which voltage is applied. The bent sections 7 and terminal bound sections 12 are molded by an insulator 13 for holding a coil, the rotor 14 is inserted, voltage is applied, and the rotor is magnetized.

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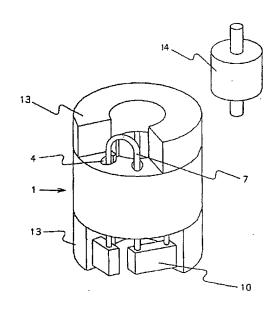
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(54)【発明の名称】 小型モーター回転子の着磁方法

(57)【要約】

【目的】 着磁治具の耐摩耗性を高めた、低コストかつ 高性能な小型モーター回転子を製造する手段を提供す る。

【構成】着磁治具鉄心部表面に、Hv1000以上の硬 質被覆層を1μm以上形成させた着磁治具を用い着磁す ることにより、着磁性能及び量産性が高い小型モーター 回転子を得る。



【図4】

